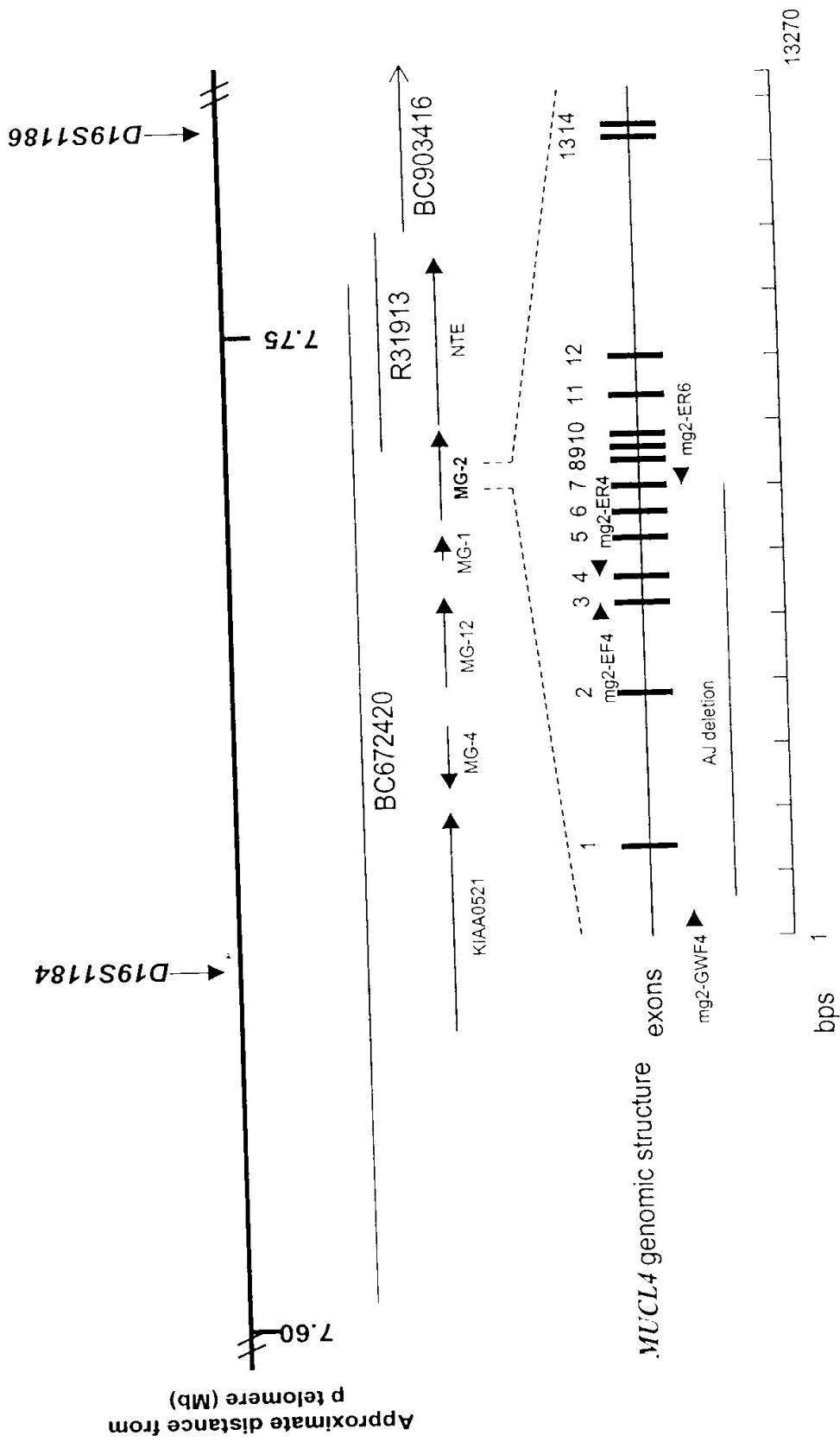


Figure 1A



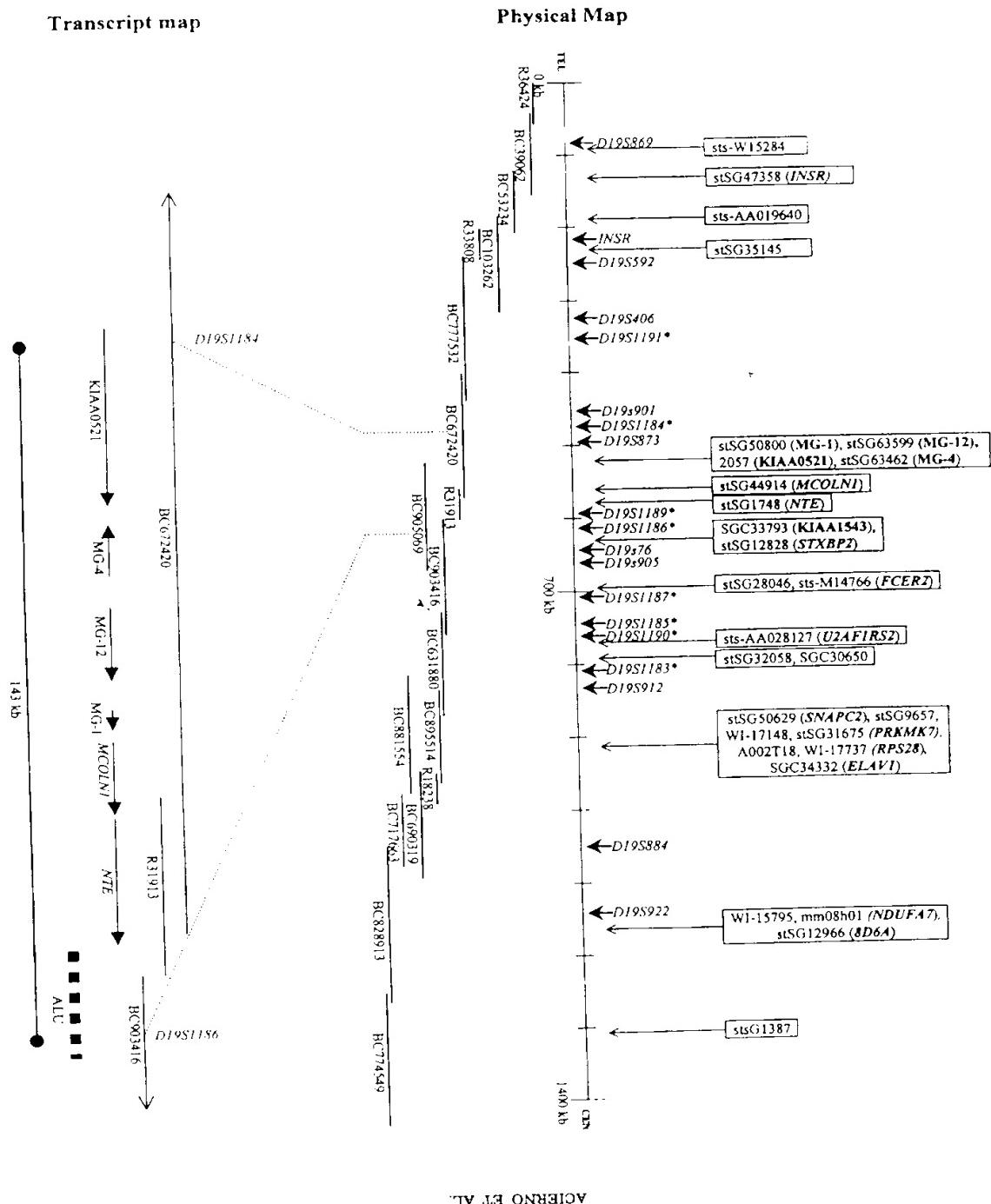


Fig. 1B

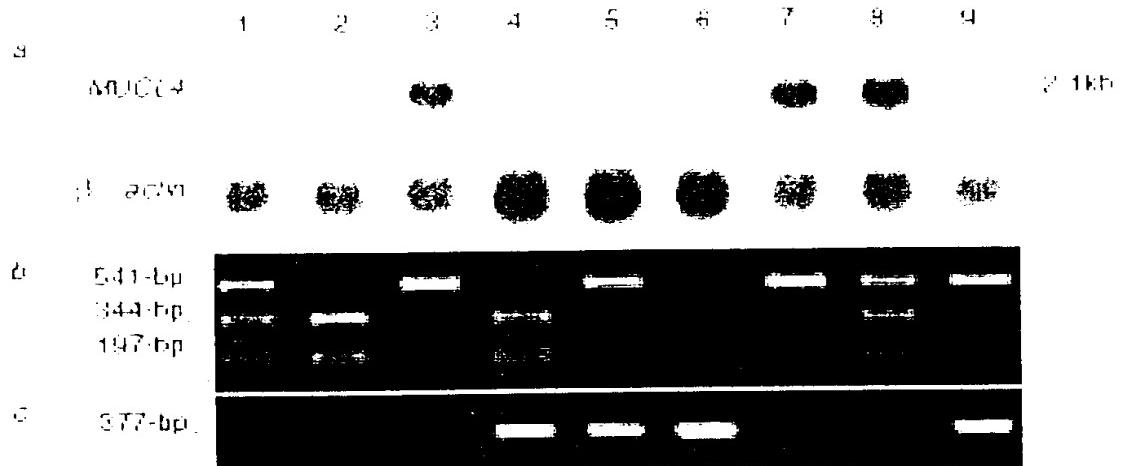


FIGURE 2

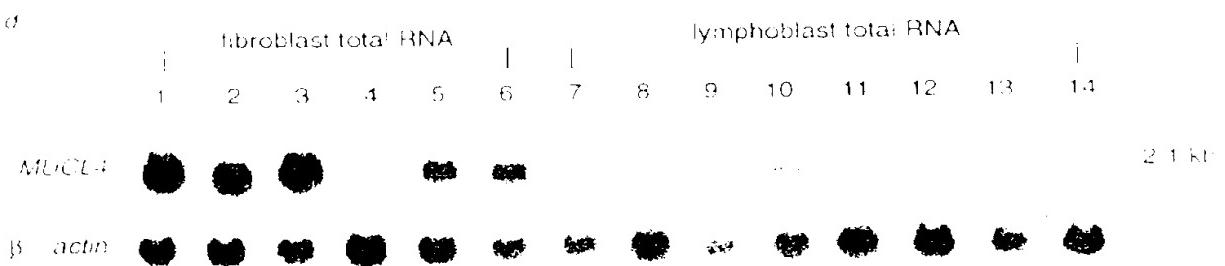


Figure 2

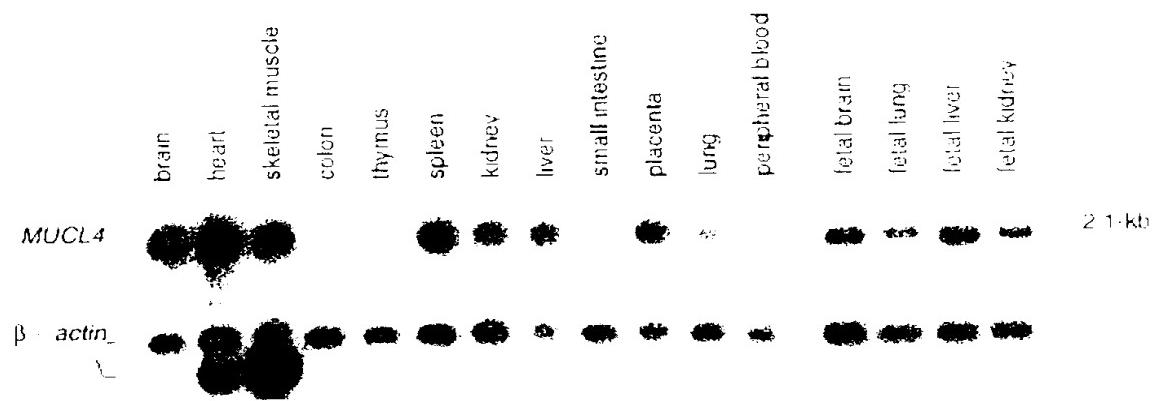


FIGURE 3

Mucolipin	47EFEVSPDKKAKGRKPCKLIVLWVQVKILWVIVOLWLFGLSNQAYTTERENTIAERHLFLIGYSDC.	ADDITTAETTEQTOAFAHDQYL
BAA91951	44EFEVNPCEKMAARGRKPCKLQIQLKIAWVIVOLWLFGLSNQAVTAKEGENTIAFKHLFLIGYKMDR.	MDDIVWVYQTOSSDMDQIIVANQYL
AAF49118-	101EFEVNPCEKQAKRKPCKLQWVQVKIFEVIVOLWLFGLSNQAVTAKEGENTIAFKHLFLIGYKMDSSREVESSPPVGPEAKTLEKEDDITVQAVNGYAN	CELEAHSRVNHVYTGDRFAEFSHFLIGYKMDSSREVESSPPVGPEAKTLEKEDDITVQAVNGYAN

Mucolipin 139PDVSEGVAYVRGGCDPWTNGSGLAICORYHGRHDPAINTERDIDWVDDCIOVDPERRPPPSDDDLTESSSIKLLKEKQYVNTHERKL
 BAA91951 136TINVSCHNEENK...EKOSXAKCCHYKRCNIXPNDPDIIDTECEFEVEDE...P...FHGTPAENTUNLDEEETTNELOEKLK
 AAF49118_ 200VS.RSICPDPTPN...NTMPPIKCLONRECTILEGENESLDPHIEBEVCRPPNVT.....TIGVNEYLRDQEAVNSMVAOLTEKK

Mucolipin 239MINTLOSENINSEPDICYTESMILTEDNAKSGRIPISLETOAHIOEC...
BAA91951 224MINTLOEVRHOMEDCYEWLITEDNAKSGRKISLDNDISRECDW
AAF4918- 2871NFANGGPLSABDCEPDISITENEDHPGOMLESIDAETRLLKGATDEISDANFDSMRSMINIEVILTCALSEALCRAILMRYMLIRCHTNNEE

Mucolipin 335WRQRVIVSWEERLEAVGMYIIVVSDVLTISGMVXKAGIEAKNTAS . . . DVCSSTLGTSTLVWGVIRYLTETHNYNTEQALRVALPSVAKRECCV
 BAA91951_ 322LHYKEYSVSPOEEFVGMYMIIISDLTIGSILKVEIQAQSLSIS . . . DVESSTLGTSTLVWGVIRYLTETHNYNTEQALRVALPVTRRECCV
 AAF49118_ 387RSQGKELSEDGRLEEVVWVMIENDVLLIGSALEQIER . . . VVDQMPTEFLIGQNLWGVIRYLTETHNYNTEQALRVALPVTRRECCV

Mucolipin 433AVIYLGYCFCGMIYVLGPWIKRSIAMSFLFIALIDTVEIILQVODDE
BAA19151 420AVIYLGYCFCGMIYVLGPWIKRSIAMSFLFIALIDTVEIILQVODDE
AAF19118- 487LIVACEVCGMELGPWIKRSIATTSECIFALINGDDMFATEATISS .

Mucolipin 533ESEIQLYACCO DSSSEKERRGSG. SACSLCCCCDPEEEHSLV.
BAA91951_ 517PTEETEETESECK DLNSSEKKEEIDD. PVSLECCCR.
AAF49118_ 584PTDTRKAVGTRTAEDISSEVENTEDDQTSFLDVVKSCCCGCRHQEPQOPENSGYTSLSIMK

Figure 4A

Figure 4B

PKD2 vs. Mucolipin Hydrophobicity Plot

